

GCI1746

SYN-1164

4-(tert-butyl)-N-(2-methyl-3-(4-methyl-6-((4-(morpholine-4-carbonyl)phenyl)amino)-5-oxo-4,5-dihydropyrazin-2-yl)phenyl)benzamide

CAS Registry No.: 910232-84-7

Smiles String:

Cc1c(cccc1NC(=O)c2ccc(cc2)C(C)(C)C)c3cn(c(=O)c(n3)Nc4ccc(cc4)C(=O)N5CCOCC5)C

Molecular Weight: 579.69

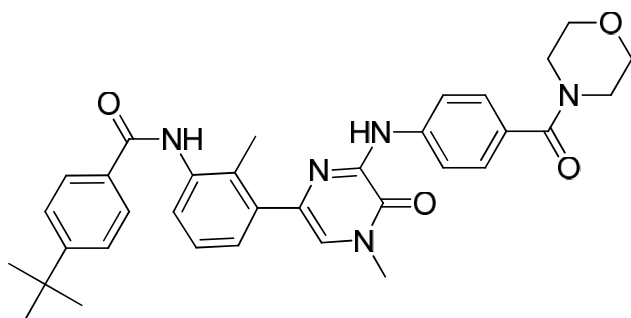
Molecular Formula: C₃₄H₃₇N₅O₄

Lot Number: Refer to vial

¹H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

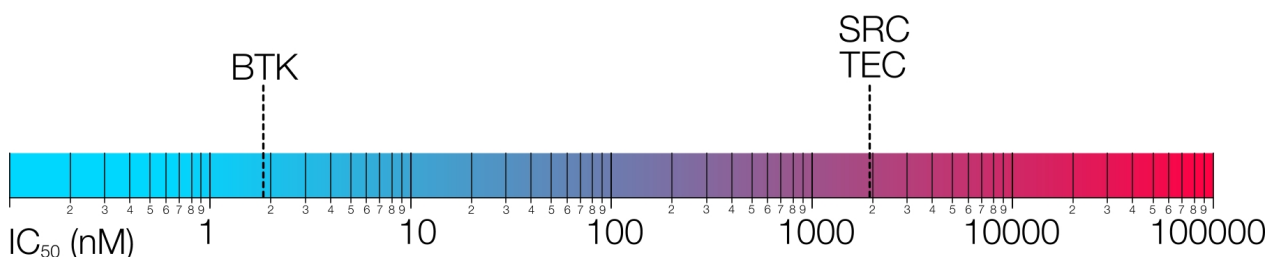
ES-MS: Available on request



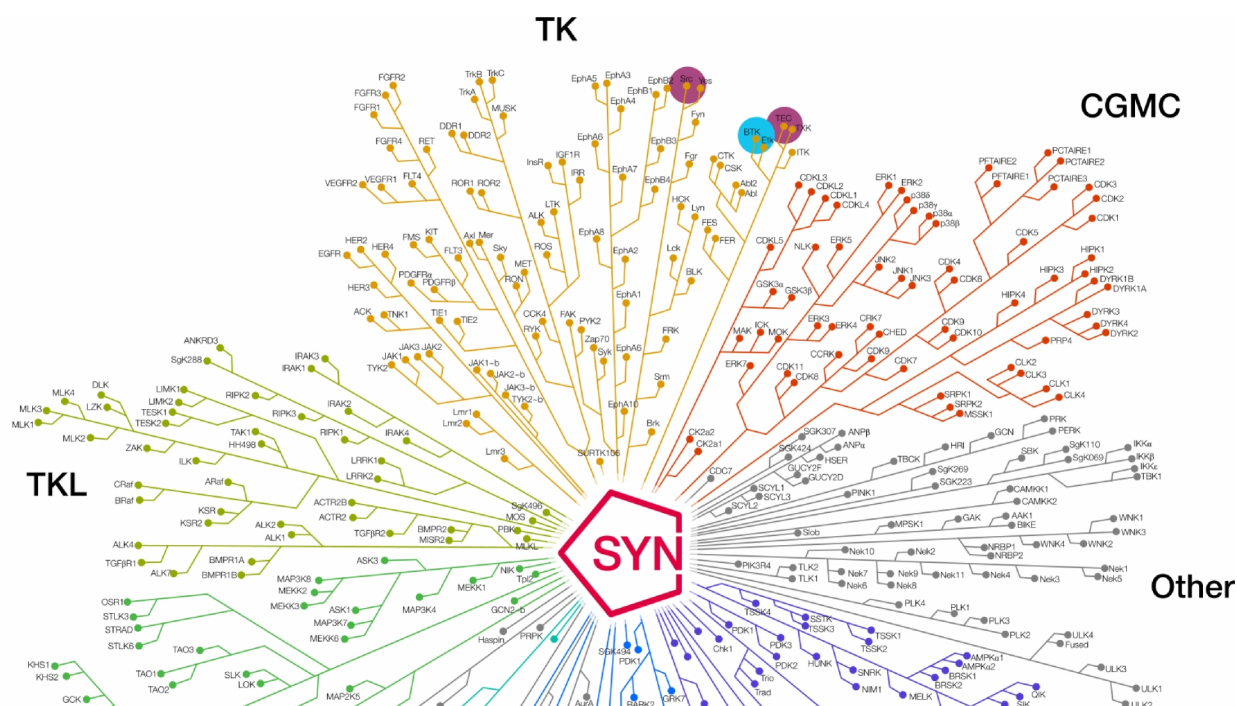
Description:

GCI1746 was identified as a selective and potent ATP-competitive BTK inhibitor with an IC₅₀ of 1.9 nM. It is specific for BTK, with around 1000-fold selectivity over Tec and Src family kinases.

Biological Activity



Kinome Mapping



Shipping and Storage Temperature

Shipping:

Ambient

Storage:

2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

Solubility

DMSO 112mg/mL, Ethanol 4mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.5797	5.7970	11.5940	28.9850

References

1. Di Paolo JA, Huang T, Balazs M, Barbosa J, Barck KH, Bravo BJ, Carano RA, Darrow J, Davies DR, DeForge LE, Diehl L, Ferrando R, Gallion SL, Giannetti AM, Gribling P, Hurez V, Hymowitz SG, Jones R, Kropf JE, Lee WP, Maciejewski PM, Mitchell SA, Rong H, Staker BL, Whitney JA, Yeh S, Young WB, Yu C, Zhang J, Reif K, Currie KS. Specific Btk inhibition suppresses B cell- and myeloid cell-mediated arthritis. Nat Chem Biol. 2011 Jan;7(1):41-50. doi: 10.1038/nchembio.481. Epub 2010 Nov 28.

Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1- 877-854-6273 or email orders@synkinase.com.

Product Datasheet (Rev. 1.1)